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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/900,964 07/25/97 CAPPELS

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LM02/1103

EXAMINER

NGUYEN, J

ART UNIT

PAPER NUMBER

2778

DATE MAILED:

11/03/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.
08/900,964

Applicant(s)
Richard D. Cappels

Examiner
Jimmy H. Nguyen

Group Art Unit
2778



☒ Responsive to communication(s) filed on Sep 22, 1999

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claim

☒ Claim(s) 26-45 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 26-45 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☒ None of the CERTIFIED copies of the priority documents have been
☐ received.

☐ received in Application No. (Series Code/Serial Number) _____.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

— SEE OFFICE ACTION ON THE FOLLOWING PAGES —

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Detailed Action

Continued Prosecution Application

1. The request filed on September 22, 1999 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 08/900,964 is acceptable and a CPA has been established. An action on the CPA follows.

Drawings

2. Figures 1 and 4A should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g).

Claim Objections

3. Claim 26 is objected to because of the following informalities: lines 10-13, "a display control thereon" should be changed to --a display control device included in said computer display device for receiving a video signal and said window information signal, for processing said video signal in response to said window information signal and for providing a processed video signal to a computer display screen to generate said high-luminance viewing window thereon-- to

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be consistent with figure 3 and specification, page 10, line 17 - page 11, line 2, and page 12, line 19 - page 13, line 2. Appropriate correction is required.

4. Claim 33 is objected to because of the following informalities: lines 2-3, "said window control signal includes ... amplifier." should be changed to --said window control signal includes position and size information for said high-luminance viewing window-- to be consistent with the specification, page 12, lines 13-15. Appropriate correction is required.

5. Claim 35 is objected to because of the following informalities: lines 1-3, "said window control signal includes a horizontal" should be changed to --said host computer provides a horizontal-- to be consistent with figure 3 and the specification, page 11, lines 10-16. Appropriate correction is required.

6. Claim 36 is objected to because of the following informalities: lines 7-10, "using a display control thereon" should be changed to --using a display control device for receiving a video signal and said window information signal, for processing said video signal in response to said window information signal; and for providing a processed video signal to a computer display screen to generate said high-luminance viewing window thereon-- to be consistent with figure 3 and specification, page 10, line 17 - page 11, line 2, and page 12, line 19 - page 13, line 2. Appropriate correction is required.

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7. Claim 39 is objected to because of the following informalities: line 2, "analog video" should be changed to --analog window-- to be consistent with figure 3. Appropriate correction is required.

8. Claim 40 is objected to because of the following informalities: line 1, "analog video" should be changed to --analog window-- to be consistent with figure 3. Appropriate correction is required.

9. Claim 41 is objected to because of the following informalities: line 2, "widow" should be changed to --window--. Appropriate correction is required.

10. Claim 42 is objected to because of the following informalities: lines 1-2, "wherein ... a horizontal" should be changed to --further comprising generating a horizontal-- to be consistent with figure 3 and the specification, page 11, lines 10-16. Appropriate correction is required.

11. Claim 43 is objected to because of the following informalities: lines 8-10, "processing ... using a display control window." should be changed to -- using a display control device for receiving a video signal and said window information signal, for processing said video signal in response to said window information signal; and providing a processed video signal to a computer

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display screen to generate said high-luminance viewing window thereon-- to be consistent with figure 3 and specification, page 5, line 29 - page 6, line 2, and page 6, lines 30-32. Appropriate correction is required.

12. Claim 45 is objected to because of the following informalities: lines 9-12, "means for using a display control windows." should be changed to --means for using a display control device for receiving a video signal and said window information signal, for processing said video signal in response to said window information signal; and means for applying a processed video signal to a computer display screen to generate said high-luminance viewing window thereon.-- to be consistent with figure 3 and specification, page 5, line 29 - page 6, line 2, and page 6, lines 30-32. Appropriate correction is required.

Claim Rejections - 35 USC § 103

13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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14. Claims 26, 27, 34-37 and 41-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over McLaughlin et al. (USPN: 5,570,108) in view Whitehead (USPN: 4,733,229).

In regard to claims 26, 27, 34, 36, 37, 41 and 43-45, McLaughlin et al. discloses a method and system for generating a high-luminance viewing window on a computer display device comprising a host computer system for running an application program, a processor device for automatically generating a window control signal in response to said application program, and a computer display device 16 (figure 1, abstract, column 4, lines 55-66), wherein said computer display device comprises a window generator device 16C for receiving said window control signal and for generating a window information signal, and a display control device 16D to control the characteristics (including the size, position, brightness and contrast) of the main window and said high-luminance viewing window, which have two distinct informations, one within and other outside said high-luminance viewing window, and both are displayed on a CRT display screen in response to window information signal from manual controls 16B or from said window generator device processor (figures 1, 5, 8 and 11, abstract, column 5, lines 10-28 and lines 52-66, and column 14, lines 36-42).

McLaughlin et al. does not disclose expressly how to process a video signal in response to said window information signal to generate high-luminance viewing window thereon.

Whitehead discloses a system for generating selected highlight area on a CRT display screen comprising a window generator device 38 (comprising 52, 54, 56, 58 and 60), for

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receiving a window control signal from a highlight operator controls 15 (including 16 and 18) and for generating a window information signal (output of an AND gate 60), and a display control device (including 32, 68 and 70), including a video amplifier 68, for receiving an input video signal, processing said received video signal responsive to said window information signal to generate said high-luminance window and providing a processed video signal to a CRT computer display screen (figures 2 and 4, column 6, lines 18-63, column 4, lines 22-37). Whitehead also teaches two distinct informations, one stored in 25 and displayed within said high-luminance viewing window and other stored in 23 and displayed outside of said high-luminance viewing window (figure 4, column 6, lines 35-52).

McLaughlin et al. and Whitehead are analogous art because they are from the same field of endeavor, that is the computer art.

At the time this invention, it would have been obvious to one of ordinary skill in this art to utilize teachings of Whitehead to explain clearly the functions of said window generator device and said control display device of McLaughlin et al., or to combine Whitehead's said window generator device and said control display device with the system of McLaughlin et al..

The motivation for doing so would have been to allow the operator adjusting the brightness and/or contrast of the selected highlight area and/or the background image independently, either by manual controls or an application programs run by a host computer.

Therefore, it would have been obvious to combine Whitehead with McLaughlin et al. to obtain the invention as specified in claims above.

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In regard to claims 35 and 42 as applied respectively to claims 26 and 36 above, McLaughlin et al. in view of Whitehead does not disclose expressly that where the horizontal and vertical synchronization signals are come from (Whitehead, figure 4). However, the computer providing the horizontal and vertical synchronization signals to a computer display device via a cable is well-known to a person of ordinary skill in the art. Therefore, these claims are rejected for the reason as set forth above.

15. Claims 28-33 and 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over McLaughlin et al. in view Whitehead and further in view of Lagoni (USPN: 5,204,748).

In regard to claims 28-33 and 38-40 as applied to claims 26 and 36 above, McLaughlin et al. in view of Whitehead discloses that wherein said display control device is a video amplifier 68 (Whitehead, figure 4) and said window control signal provides information relate to size and position of viewing window (McLaughlin et al., figure 11, column 14, lines 36-42 and column 3, lines 47-56. Whitehead, figure 4, column 6, lines 18-34). McLaughlin et al. in view of Whitehead further discloses that the computer display device receives window control signals from the host computer and adjusts the electron guns within display screen in response to said window control signals by passing said window information, which is derived from said window control signal, to said display control circuit (McLaughlin et al., column 5, lines 10-28). McLaughlin et al. in view

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of Whitehead further discloses said window information signal is passed to a Gain Select circuit 70 of said display control device (Whitehead, figure 4).

However, McLaughlin et al. in view of Whitehead does not disclose expressly said Gain Select circuit or said display control device in detail such as an involvement of an automatic beam limiter and a high voltage power supply for generating a high-luminance viewing window on a display screen.

Lagoni teaches a method and an apparatus for displaying a sub-window on a main window on a display device (column 1, lines 7-11), wherein the sub-window is not isolated from the influence of the main picture but rather has a specific relationship in that the sub-window may have a different luminance (figure 2, summary), and said display device comprises a high voltage power supply 29 for providing a high voltage signal to an anode of said CRT device (this feature in fact is well-known to a person of ordinary skill in the art), and an automatic beam limiter (ABL section) for sampling the current of said high voltage signal to automatically determine when to limit said signal (the function of ABL is well-known to a person of ordinary skill in the art) (figures 1-2, column 1, lines 26-49, and column 7, line 56 - column 8, line 36). Lagoni further teaches that a window generator device 5 receives a window control signal providing the size and position of said sub-window and generates a window information signal FS to said ABL, and said ABL provides an analog window signal to control the gain of a video amplifier (a combination of 9-11, 13, 15, 17 and 39) (figures 1-2, column 6, lines 48 - column 7, line 55).

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Lagoni, McLaughlin et al. and Whitehead are analogous art because they are from the same field of endeavor, that is the computer art.

At the time this invention, it would have been obvious to one of ordinary skill in this art to utilize teachings of Lagoni to explain clearly the Gain Select circuit 70 of Whitehead and said control display device of McLaughlin et al., or to combine Lagoni's ABL with the system of McLaughlin et al. in view of Whitehead.

The motivation for doing so would have been to obtain a system for generating high-luminance viewing window, which is not isolated from the influence of the main picture but rather has a specific relationship in that the sub-window has a higher luminance.

Therefore, it would have been obvious to combine Lagoni and Whitehead with McLaughlin et al. to obtain the invention as specified in claims above.

Conclusion

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jimmy H. Nguyen whose telephone number is (703) 306-5422. The examiner can normally be reached on Monday thru Thursday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached on (703) 305-4938.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3800.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231


or faxed to:

(703) 308-9051 (for formal communications intended for entry)

(703) 308-6606 (for informal or draft communications, please label

“Proposed” or “Draft”)

Hand delivered response should be brought to Crystal Park II, 2121 Crystal Drive,
Arlington, VA., Sixth floor (Receptionist).


Lun-Yi Lao
Primary Examiner

JHN

October 30, 1999